

Gunter, Jason

From: Nations, Mark <mnations@doerun.com>
Sent: Tuesday, July 15, 2014 4:53 PM
To: Gunter, Jason
Cc: Yingling, Mark; James, Kevin; Neaville, Chris; Montgomery, Michael;
robert.hinkson@dnr.mo.gov; brandon.wiles@dnr.mo.gov; Ty Morris (TMorris@barr.com);
Sanders, Amy B.; Hedrick, Samantha K.
Subject: BTE 2nd Qtr 2014
Attachments: BTE_2nd_Qtr (1).doc; 2014-06-18 BT AOC Pace Lab Report.pdf

Jason, attached is the progress report.
Mark

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Superfund

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**THE
DOE RUN
COMPANY**

Remediation Group

Mark Nations
Mining Properties Manager
mnations@doerun.com

July 11, 2014

Mr. Jason Gunter
Remedial Project Manager
U.S. Environmental Protection Agency
Region 7 - Superfund Branch
11201 Renner Blvd.
Lenexa, KS 66219

Re: The Doe Run Company – Bonne Terre Superfund Site Quarterly Progress Report

Dear Mr. Gunter:

As required by Article VI, Section 56 of the Unilateral Administrative Order (UAO) (CERCLA-07-2005-0169) for the referenced project and on behalf of The Doe Run Company, the progress report for the period April 1, 2014 through June 30, 2014 is enclosed. If you have any questions or comments, please call me at 573-518-0800.

Sincerely,



Mark Nations
Mining Properties Manager

Enclosures

- c: Mark Yingling – TDRC (electronic only)
- Kevin James – TDRC (electronic only)
- Chris Neaville – TDRC (electronic only)
- Michael Montgomery – TDRC (electronic only)
- Robert Hinkson – MDNR
- Brandon Wiles – MDNR
- Ty Morris – Barr Engineering

Bonne Terre Mine Tailings Site
Bonne Terre, Missouri
Removal Action - Quarterly Progress Report
Period: April 1, 2014 – June 30, 2014

1. Significant Developments and Work Preformed this Period:

- a. Completed the second quarter stormwater sampling event for the southern detention basin sampling point (eastern portion). Results of this sample are included with this progress report.
- b. Received comments on the Post Removal Site Control Plan for the Eastern Portion of the Bonne Terre Mine Tailings Site that was submitted to EPA for review.
- c. Completed work to address EPA comments on the Post Removal Site Control Plan for the Eastern Portion of the Bonne Terre Mine Tailings Site.
- d. Completed the second quarter 2014 site and vegetation inspections of the western portion of the Bonne Terre Mine Tailings Site May 15, 2014.

2. Problems Encountered This Period:

- a. None.

3. Significant Developments Anticipated and Work Scheduled Next Period:

- a. Complete the third quarter 2014 stormwater sampling event for the southern detention basin sampling point.
- b. Submit the revised version of the Post Removal Site Control Plan for the Eastern Portion of the Bonne Terre Mine Tailings Site.
- c. Resume work on the Removal Action Report for the Eastern Portion of the Bonne Terre Mine Tailings Site.

4. Planned Resolutions of Past or Anticipated Problems:

- a. None.

5. Changes in Personnel:

- a. None.



Pace Analytical Services, Inc.

9608 Loiret Blvd.

Lenexa, KS 66219

(913)599-5665

June 27, 2014

Amy Sanders
The Doe Run Company
P. O. Box 500
Viburnum, MO 65566

RE: Project: BONNE TERRE (QUARTERLY)
Pace Project No.: 60171825

Dear Amy Sanders:

Enclosed are the analytical results for sample(s) received by the laboratory on June 19, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Mary Jane Walls for
Jamie Church
jamie.church@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: . BONNE TERRE (QUARTERLY)
Pace Project No.: 60171825

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-13-4
Utah Certification #: KS000212013-3
Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: BONNE TERRE (QUARTERLY)

Pace Project No.: 60171825

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60171825001	BTE 2ND QTR 2014	Water	06/18/14 10:54	06/19/14 08:30

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SAMPLE ANALYTE COUNT

Project: BONNE TERRE (QUARTERLY)
Pace Project No.: 60171825

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60171825001	BTE 2ND QTR 2014	EPA 200.7	JGP	6	PASI-K
		EPA 200.7	NDJ	3	PASI-K
		SM 2540D	ESM	1	PASI-K
		SM 2540F	JML	1	PASI-K
		SM 4500-H+B	NDL	1	PASI-K
		EPA 300.0	OL	1	PASI-K
		SM 5310C	JMC1	1	PASI-K

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ANALYTICAL RESULTS

Project: BONNE TERRE (QUARTERLY)

Pace Project No.: 60171825

Sample: BTE 2ND QTR 2014 Lab ID: 60171825001 Collected: 06/18/14 10:54 Received: 06/19/14 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total Analytical Method: EPA 200.7 Preparation Method: EPA 200.7									
Cadmium	ND	ug/L	5.0	0.56	1	06/21/14 16:20	06/24/14 20:59	7440-43-9	
Calcium	157000	ug/L	100	7.8	1	06/21/14 16:20	06/24/14 20:59	7440-70-2	
Lead	11.4	ug/L	5.0	2.2	1	06/21/14 16:20	06/24/14 20:59	7439-92-1	
Magnesium	89700	ug/L	50.0	17.0	1	06/21/14 16:20	06/24/14 20:59	7439-95-4	
Total Hardness by 2340B	760000	ug/L	500		1	06/21/14 16:20	06/24/14 20:59		
Zinc	158	ug/L	50.0	12.5	1	06/21/14 16:20	06/24/14 20:59	7440-66-6	
200.7 Metals, Dissolved (LF) Analytical Method: EPA 200.7 Preparation Method: EPA 200.7									
Cadmium, Dissolved	ND	ug/L	5.0	0.56	1	06/24/14 18:10	06/25/14 12:41	7440-43-9	
Lead, Dissolved	ND	ug/L	5.0	2.2	1	06/24/14 18:10	06/25/14 12:41	7439-92-1	
Zinc, Dissolved	123	ug/L	50.0	12.5	1	06/24/14 18:10	06/25/14 12:41	7440-66-6	
2540D Total Suspended Solids Analytical Method: SM 2540D									
Total Suspended Solids	10	mg/L	5.0	5.0	1		06/20/14 13:28		
2540F Total Settleable Solids Analytical Method: SM 2540F									
Total Settleable Solids	ND	mL/L/hr	0.20	0.20	1		06/19/14 14:00		
4500H+ pH, Electrometric Analytical Method: SM 4500-H+B									
pH at 25 Degrees C	7.8	Std. Units	0.10	0.10	1		06/25/14 14:10		H6
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Sulfate	431	mg/L	50.0	4.9	50		06/24/14 14:15	14808-79-8	
5310C TOC Analytical Method: SM 5310C									
Total Organic Carbon	1.1	mg/L	1.0	0.50	1		06/23/14 19:15	7440-44-0	

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QUALITY CONTROL DATA

Project: BONNE TERRE (QUARTERLY)
Pace Project No.: 60171825

QC Batch: MPRP/27731 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60171825001

METHOD BLANK: 1398298 Matrix: Water
Associated Lab Samples: 60171825001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium	ug/L	ND	5.0	06/24/14 20:00	
Calcium	ug/L	ND	100	06/24/14 20:00	
Lead	ug/L	ND	5.0	06/24/14 20:00	
Magnesium	ug/L	ND	50.0	06/24/14 20:00	
Total Hardness by 2340B	ug/L	ND	500	06/24/14 20:00	
Zinc	ug/L	ND	50.0	06/24/14 20:00	

LABORATORY CONTROL SAMPLE: 1398299

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium	ug/L	1000	989	99	85-115	
Calcium	ug/L	10000	9870	99	85-115	
Lead	ug/L	1000	1030	103	85-115	
Magnesium	ug/L	10000	10100	101	85-115	
Total Hardness by 2340B	ug/L		66400			
Zinc	ug/L	1000	1010	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1398300 1398301

Parameter	Units	60171821001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cadmium	ug/L	1.9J	1000	1000	1010	1020	101	101	70-130	1	10	
Calcium	ug/L	278000	10000	10000	277000	288000	-3	103	70-130	4	9 M1	
Lead	ug/L	3.6J	1000	1000	1000	1020	100	102	70-130	2	10	
Magnesium	ug/L	83500	10000	10000	90400	94000	70	106	70-130	4	9	
Total Hardness by 2340B	ug/L	104000 0			1060000	1110000					4	
Zinc	ug/L	10600	1000	1000	11300	11500	73	96	70-130	2	11	

MATRIX SPIKE SAMPLE: 1398302

Parameter	Units	60171826004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cadmium	ug/L	ND	1000	992	99	70-130	
Calcium	ug/L	47200	10000	57600	104	70-130	
Lead	ug/L	4.0J	1000	1040	104	70-130	
Magnesium	ug/L	27400	10000	37300	99	70-130	
Total Hardness by 2340B	ug/L	230000		297000			

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QUALITY CONTROL DATA

Project: BONNE TERRE (QUARTERLY)

Pace Project No.: 60171825

MATRIX SPIKE SAMPLE:		1398302					
Parameter	Units	60171826004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Zinc	ug/L	27.4J	1000	1050	102	70-130	

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QUALITY CONTROL DATA

Project: BONNE TERRE (QUARTERLY)
Pace Project No.: 60171825

QC Batch: MPRP/27791 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60171825001

METHOD BLANK: 1400395 Matrix: Water
Associated Lab Samples: 60171825001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium, Dissolved	ug/L	ND	5.0	06/25/14 12:24	
Lead, Dissolved	ug/L	ND	5.0	06/25/14 12:24	
Zinc, Dissolved	ug/L	ND	50.0	06/25/14 12:24	

LABORATORY CONTROL SAMPLE: 1400396

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium, Dissolved	ug/L	1000	960	96	85-115	
Lead, Dissolved	ug/L	1000	980	98	85-115	
Zinc, Dissolved	ug/L	1000	968	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1400397 1400398

Parameter	Units	60171821002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Cadmium, Dissolved	ug/L	ND	1000	1000	954	967	95	97	70-130	1	10
Lead, Dissolved	ug/L	ND	1000	1000	966	982	97	98	70-130	2	10
Zinc, Dissolved	ug/L	ND	1000	1000	937	950	94	95	70-130	1	11

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QUALITY CONTROL DATA

Project: BONNE TERRE (QUARTERLY)

Pace Project No.: 60171825

QC Batch: WET/48586

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60171825001

METHOD BLANK: 1397881

Matrix: Water

Associated Lab Samples: 60171825001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	06/20/14 13:26	

SAMPLE DUPLICATE: 1397882

Parameter	Units	60171818001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	3160	2560	21	10	D6

SAMPLE DUPLICATE: 1397883

Parameter	Units	60171826004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	6.0	6.0	0	10	

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QUALITY CONTROL DATA

Project: BONNE TERRE (QUARTERLY)

Pace Project No.: 60171825

QC Batch: WET/48675

Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B

Analysis Description: 4500H+B pH

Associated Lab Samples: 60171825001

SAMPLE DUPLICATE: 1400387

Parameter	Units	60171920001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.6	7.6	1	5	H6

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QUALITY CONTROL DATA

Project: BONNE TERRE (QUARTERLY)
Pace Project No.: 60171825

QC Batch: WETA/29934 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60171825001

METHOD BLANK: 1400572 Matrix: Water
Associated Lab Samples: 60171825001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	ND	1.0	06/24/14 11:37	

LABORATORY CONTROL SAMPLE: 1398940

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	5	5.2	104	90-110	

LABORATORY CONTROL SAMPLE: 1400573

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	5	5.2	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1398941 1398942

Parameter	Units	60171254001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Sulfate	mg/L	25.4	10	10	35.5	35.5	101	101	80-120	0 15	

MATRIX SPIKE SAMPLE: 1398943

Parameter	Units	60171243003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	246	100	346	100	80-120	

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QUALITY CONTROL DATA

Project: BONNE TERRE (QUARTERLY)
Pace Project No.: 60171825

QC Batch:	WETA/29936	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Total Organic Carbon
Associated Lab Samples:	60171825001		

METHOD BLANK: 1399066
Associated Lab Samples: 60171825001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	ND	1.0	06/23/14 10:10	

LABORATORY CONTROL SAMPLE: 1399067

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5	5.0	100	80-120	

MATRIX SPIKE SAMPLE: 1399068

Parameter	Units	60171634035 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	ND	25	25.4	85	80-120	

SAMPLE DUPLICATE: 1399069

Parameter	Units	60171634036 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	173	173	0	25	

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QUALIFIERS

Project: BONNE TERRE (QUARTERLY)

Pace Project No.: 60171825

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

LOD - Limit of Detection.

LOQ - Limit of Quantitation.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-K Pace Analytical Services - Kansas City

ANALYTE QUALIFIERS

D6 The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.

H6 Analysis initiated outside of the 15 minute EPA recommended holding time.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BONNE TERRE (QUARTERLY)
Pace Project No.: 60171825

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60171825001	BTE 2ND QTR 2014	EPA 200.7	MPRP/27731	EPA 200.7	ICP/20973
60171825001	BTE 2ND QTR 2014	EPA 200.7	MPRP/27791	EPA 200.7	ICP/21010
60171825001	BTE 2ND QTR 2014	SM 2540D	WET/48586		
60171825001	BTE 2ND QTR 2014	SM 2540F	WET/48558		
60171825001	BTE 2ND QTR 2014	SM 4500-H+B	WET/48675		
60171825001	BTE 2ND QTR 2014	EPA 300.0	WETA/29934		
60171825001	BTE 2ND QTR 2014	SM 5310C	WETA/29936		

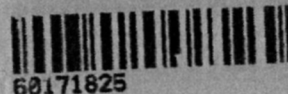
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Sample Condition Upon Receipt

WO#: 60171825



Client Name:

The Dr. Run company

Courier: Fed Ex ☒ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☐

Tracking #: 7703 4054 3602

Pace Shipping Label Used? Yes ☐ No ☒

Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☒ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☐ Foam ☐ None ☐ Other ☒ ZPC

Thermometer Used: T-239 T-194

Type of Ice: Wet Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 3.8

Date and initials of person examining contents: 06/19

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. S.S, pH
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes date/time/ID/analyses	Matrix: <u>WT</u>	13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed
Trip Blank present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Lot # of added preservative
Pace Trip Blank lot # (if purchased):		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
		16.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State:

Client Notification/ Resolution:

Copy COC to Client? Y / N

Field Data Required? Y / N

Person Contacted: _____

Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: _____

6/19/14

